A.

SEQ ID NO:1 - Hu1 light chain variable region amino acid sequence

EIVLTQSPDFQSVTPKEKVTITCRASQFVGSSIHWYQQKPDQSPKLLIKYASESMS GVPSRFSGSGSGTDFTLTINSLEAEDAATYYCQQSHSWHFTFGQGTKVEIK

В.

SEQ ID NO:2 - Hu1 light chain variable region nucleic acid sequence

GAAATTGTGCTGACTCAGTCTCCAGACTTTCAGTCTGTGACTCCAAAAGAGA
AAGTCACCATCACCTGCAGGGCCAGTCAGTTCGTTGGCTCAAGCATCCACTG
GTACCAGCAGAAGCCAGATCAGTCTCCAAAGCTCCTCATCAAGTATGCTTCT
GAGTCTATGTCTGGGGTCCCCTCGAGGTTCAGTGGCAGTGGATCTGGGACAG
ATTTCACCCTCACCATCAATAGCCTGGAAGCTGAAGATGCTGCCACGTATTAC
TGTCAACAAAGTCATAGCTGGCATTTCACGTTCGGCCAAGGGACCAAGGTGG
AAATCAAA

A.

SEQ ID NO:3 - Hu1 heavy chain variable region amino acid sequence

EVQLVESGGGLVQPGGSLRLSCAASGFTFSNHWMNWVRQAPGKGLEWVGEIRS KSINSATHYAESVKGRFTISRDDSKNSLYLQMNSLKTEDTAVYYCARNYYGSTY DHWGQGTLVTVSS

В.

SEQ ID NO:4 - Hu1 heavy chain variable region nucleic acid sequence

GAGGTGCAGCTGGAGTCTGGGGGAGGCTTGGTCCAGCCTGGAGGGTCCC
TGAGACTCTCCTGTGCAGCCTCTGGATTCACTTTCAGTAACCACTGGATGAAC
TGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTTGGCGAAATTAGAT
CAAAATCTATTAATTCTGCAACACATTATGCGGAGTCTGTGAAAGGGAGATT
CACCATCTCAAGAGATGATTCAAAGAACTCACTGTACCTGCAGATGAACAGC
CTGAAAACCGAGGACACGGCCGTGTATTACTGTGCTAGAAATTACTACGGTA
GTACCTACGACCATTGGGGCCAAGGGACCCTGGTCACCGTCTCCTCA

## FIGURE 3

A.

SEQ ID NO:5 - A10K light chain variable region amino acid sequence

EIVLTQSPDFQSVTPKEKVTITCRASQFVGYSIHWYQQKPDQSPKLLIKYASESRS GVPSRFSGSGSGTDFTLTINSLEAEDAATYYCQQSHSWHFTFGQGTKVEIK

B.

SEQ ID NO:6 - A10K light chain variable region nucleic acid sequence

GAAATTGTGCTGACTCAGTCTCCAGACTTTCAGTCTGTGACTCCAAAAGAGA
AAGTCACCATCACCTGCAGGGCCAGTCAGTTCGTTGGCTATAGCATCCACTG
GTACCAGCAGAAGCCAGATCAGTCTCCAAAGCTCCTCATCAAGTATGCTTCT
GAGTCTAGGTCTGGGGTCCCCTCGAGGTTCAGTGGCAGTGGATCTGGGACAG
ATTTCACCCTCACCATCAATAGCCTGGAAGCTGAAGATGCTGCCACGTATTAC
TGTCAACAAAGTCATAGCTGGCATTTCACGTTCGGCCAAGGGACCAAGGTGG
AAATCAAA

## FIGURE 4

A.

SEQ ID NO:7 - A10K heavy chain amino acid sequence

EVQLVESGGGLVQPGGSLRLSCAASGFKFSNHWMNWVRQAPGKGLEWVGEIRS KSMNSATHYAESVKGRFTISRDDSKNSLYLQMNSLKTEDTAVYYCARNYYGST YDHWGQGTLVTVSS

B.

SEQ ID NO:8 - A10K heavy chain nucleic acid sequence

GAGGTGCAGCTGGAGGTCTGGGGGAGGCTTGGTCCAGCCTGGAGGGTCCC
TGAGACTCTCCTGTGCAGCCTCTGGATTCCCTTTCAGTAACCACTGGATGAAC
TGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTTGGCGAAATTAGAT
CAAAATCTATGAATTCTGCAACACATTATGCGGAGTCTGTGAAAGGGAGATT
CACCATCTCAAGAGATGATTCAAAGAACTCACTGTACCTGCAGATGAACAGC
CTGAAAACCGAGGACACGGCCGTGTATTACTGTGCTAGAAATTACTACGGTA
GTACCTACGACCATTGGGGCCAAGGGACCCTGGTCACCGTCTCCTCA

## FIGURE 5

A. Amino acid sequence of a human light chain framework region with interspersed CDR sequences labeled

(FRL1 - SEQ ID NO:57) (CDRL1) (FRL2 - SEQ ID NO:58) (CDRL2) EIVLTQSPDFQSVTPKEKVTITC<u>XXXXXXXXXXXXXXX</u>WYQQKPDQSPKLLIK<u>XXXXXXXX</u>X

(FRL3 - SEQ ID NO:59) (CDRL3) (FRL4 - SEQ ID NO:60) GVPSRFSGSGSGTDFTLTINSLEAEDAATYYC<u>XXXXXXXX</u>FGQGTKVEIK

B. Nucleic acid sequence of a human light chain framework region with interspersed CDR sequences labeled

(FRL1 - SEQ ID NO:61)
GAAATTGTGCTGACTCAGTCTCCAGACTTTCAGTCTGTGACTCCAAAAGAGAAAG

(CDRL2 cont.) (FRL3 - SEQ ID NO:63)

XXXXXXXGGGGTCCCCTCGAGGTTCAGTGGCAGTGGATCTGGGACAGATTTCAC

CCTCACCATCAATAGCCTGGAAGCTGAAGATGCTGCCACGTATTACTGT

**TCAAA** 

A. Amino acid sequence of a human heavy chain framework region with interspersed CDR sequences labeled

(FRH1 - SEQ ID NO:65) (CDRH1) (FRH2 - SEQ ID NO:66) EVQLVESGGGLVQPGGSLRLSCAAS<u>XXXXXXXXXX</u>WVRQAPGKGLEWVG

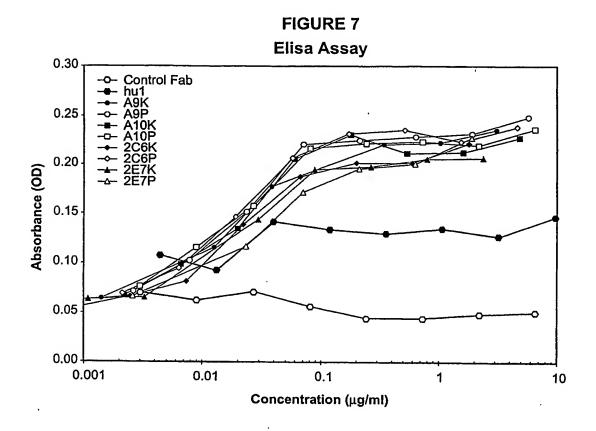
(CDRH3) (FRH4 - SEQ ID NO:68) XXXXXXXXXWGQGTLVTVSS

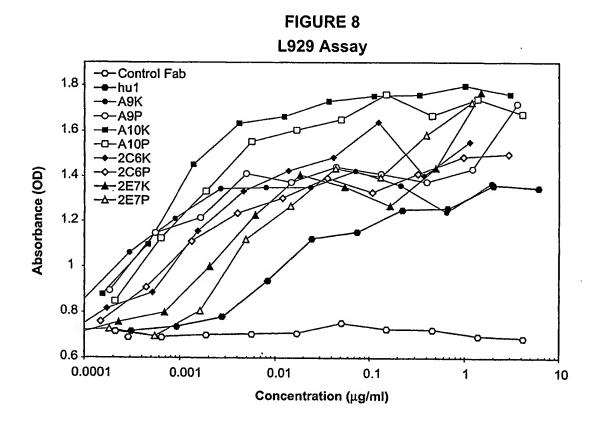
B. Nucleic acid sequence of a human heavy chain framework region with interspersed CDR sequences labeled

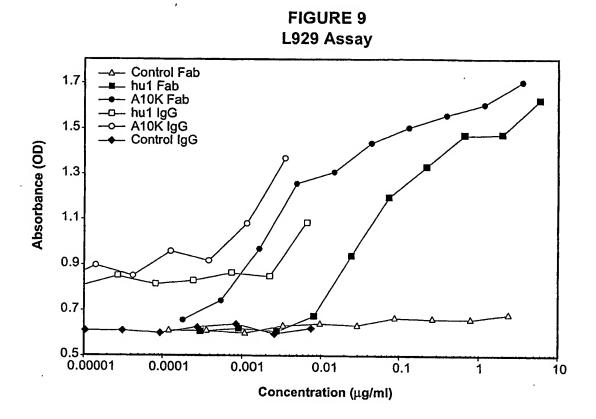
(FRH1 - SEQ ID NO:69)
GAGGTGCAGCTGGAGGTCCCTG

(FRH3 - SEQ ID NO:71)
CATCTCAAGAGATGATTCAAAGAACTCACTGTACCTGCAGATGAACAGCCTGAA

(CDRH3) (FRH4 - SEQ ID NO:72) XXXXXXXXTGGGGCCAAGGGACCCTGGTCACCGTCTCCTCA







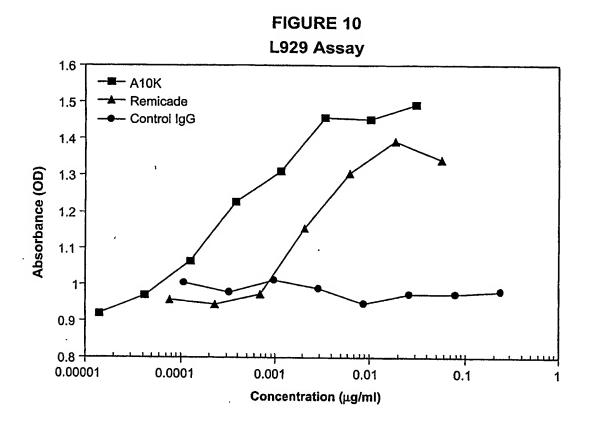


FIGURE 11 **Lethality Model** --- Saline ---- 0.8 mg/kg A10K ----- 4 mg/kg A10k **Percent Survival** Time (hours)

Polyarthritis Model

Saline

0.30

0.25

0.30

0.25

0.3mg/kg A10K

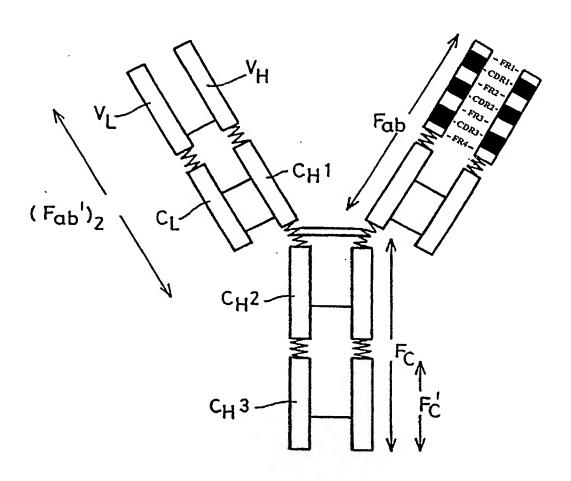
0.3mg/kg Remicade

0.10

0.00

Time (weeks)

# FIGURE 13



	domains
<b>M</b>	inter-domain sections
	disulphide bonds
V	variable
С	constant
L	light chain
Н	heavy chain

#### FIGURE 14

## A. SEQ ID NO:85 - Human CL Sequence

TCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCTCCTCCAAGAG CACCTCTGGGGCACCACCTCTCCAAGAG CACCTCTGGGGCACAGGGCCCTGGGCACCAGGGCGCGTGCACAGACCGGTGACGGGGTGCACACCCTTCCCGGCTGTCCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAGCCCAGCCCAAACCTTCTCTACCAGCAGCCCAAATCTTCTACTAGTGTTCTCTACCCATATGATGTACCTGATTATGCATCATAG

Note: This CH1 sequence contains the first six IgG1 hinge region residues (in bold) and fused to a HA decapeptide tag (italic) through a four amino acid linker (underlined).

## B. SEQ ID NO:86 - Human CH1 Sequence

CGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTT GAAATCTGGAACTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAG AGGCCAAAGTACAGTGGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCA GGAGAGTGTCACAGAGCAGGACAGCAAGGACACCTACAGCCTCAGCAG CACCCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGC GAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGG GAGAGTCTTAG

A.

## SEQ ID NO:109 - AME 3-2 Complete Heavy Chain

EVQLVESGGGLVQPGGSLRLSCAASGFTFRNHWMNWVRQAPGKGLEWVGEIR SKSINSATFYAESVKGRFTISRDDSKNSLYLQMNSLKTEDTAVYYCARNYYGSY YDHWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVD KRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSH EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS DIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMH EALHNHYTQKSLSLSPGK\*

B.

## SEQ ID NO:110 - AME 3-2 Complete Light Chain

DIQMTQSPSSLSASVGDRVTITCVTTQFVGYAIHWYQQKPGKAPKLLIYYASSSR SGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQSHGWPFTFGQGTKVEIKRTV AAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT EQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC\*